



# Lawrence Berkeley National Laboratory



## Draft RFP Comment Workshop

DOE Source Evaluation Board

October 28, 2004



# Agenda

---

- Registration 8:30 a.m.
- Welcome 9:00 a.m.
- Purpose 9:10 a.m.
- Introduction of SEB & Schedule 9:15 a.m.
- Programs & Facilities 9:30 a.m.
- Draft RFP Highlights 10:00 a.m.
- Break 10:30 a.m.
- Comments/Questions & Answers  
(Previously Submitted) 10:45 a.m.
- Lunch Break 11:30 a.m.
- Comments/Questions & Answers  
(Received at Workshop) 1:00 p.m.



# Purpose

---

- Solicit Comments on Draft RFP



# Schedule

---

- **Draft RFP Released** **October 15, 2004**
- **Comment Workshop** **October 28, 2004**
- **Comment Period Closes** **November 15, 2004**
- **RFP Released** **December, 2004**
- **Preproposal Conference/Site Tour** **~2 weeks after RFP release**
- **Proposals Due** **45 days after RFP release**
- **Oral Presentations** **~2 weeks after proposals received**
- **Award** **~45 days after proposals received**
- **Transition Period Begins** **Date of Award**
- **Transition Complete** **NLT 60 days after Award**
- **Full Responsibility for LBNL** **CO notifies Transition complete**



# Source Selection Official

---

Marvin E. Gunn, Jr.



# Board Members

---

- Chairperson Steven A. Silbergleid
- Technical Member Jeffrey B. Roberts
- Technical Member John K. Adachi
- Technical Member Noelle F. Metting
- Technical Member William S. Millman
- Technical Member Joseph P. Krupa
- Procurement Member Ronnie L. Dawson
- Legal Advisor Patrick M. Burke
- Executive Secretary Tonja L. Stokes



# **LBNL Programs and Facilities Overview**



# Outline

---

1. Introduction to the Laboratory
2. Major Programs and Sponsors
3. Alignment with DOE Strategic Plans
4. Site and Facilities Overview



# 1. Introduction to LBNL

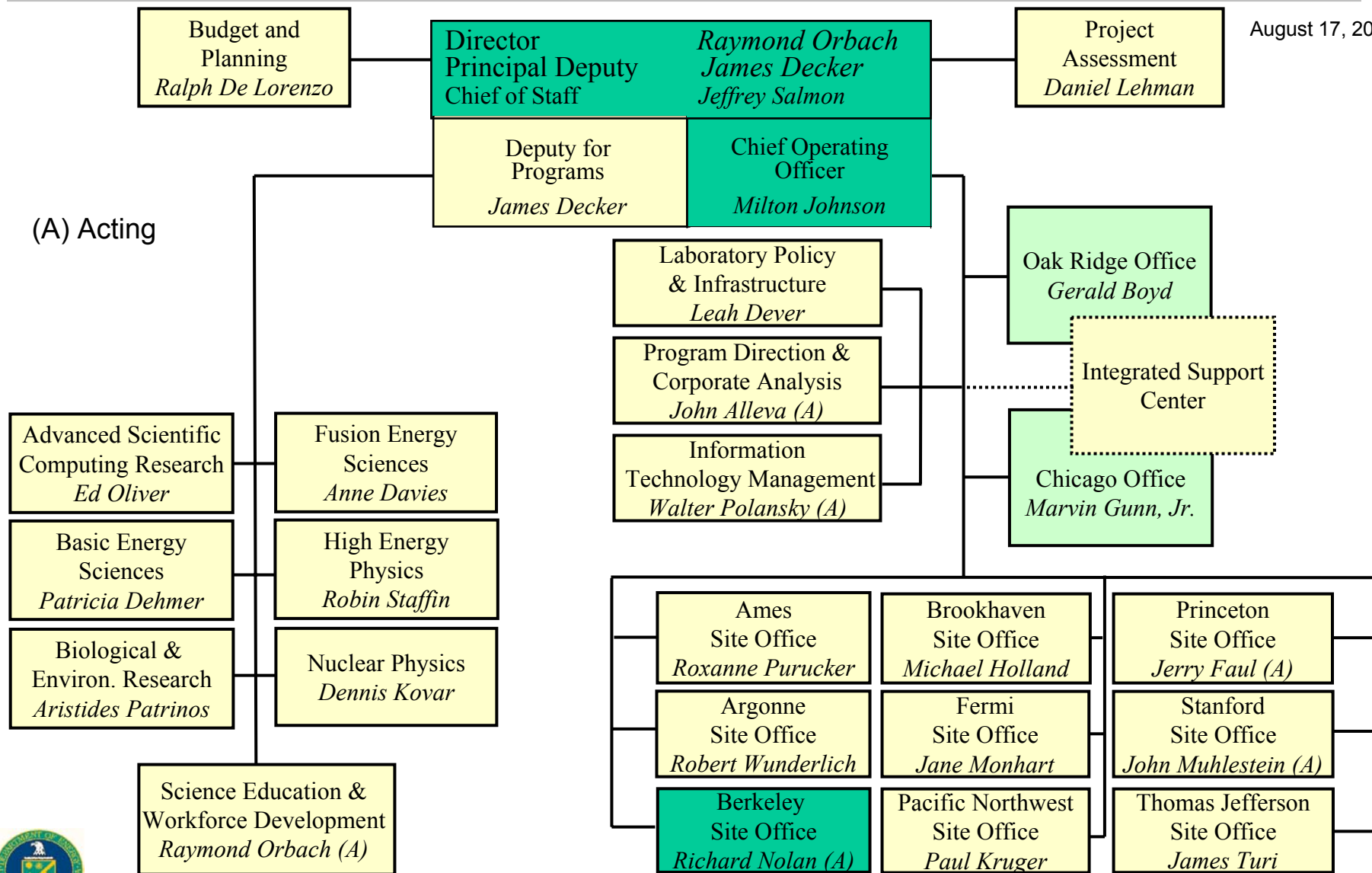
---

- Office of Science Organization
- Line Management Authority
- Mission
- Budget
- Site Population
- Site Overview
- User Facilities
- Research Diversification and Evolution



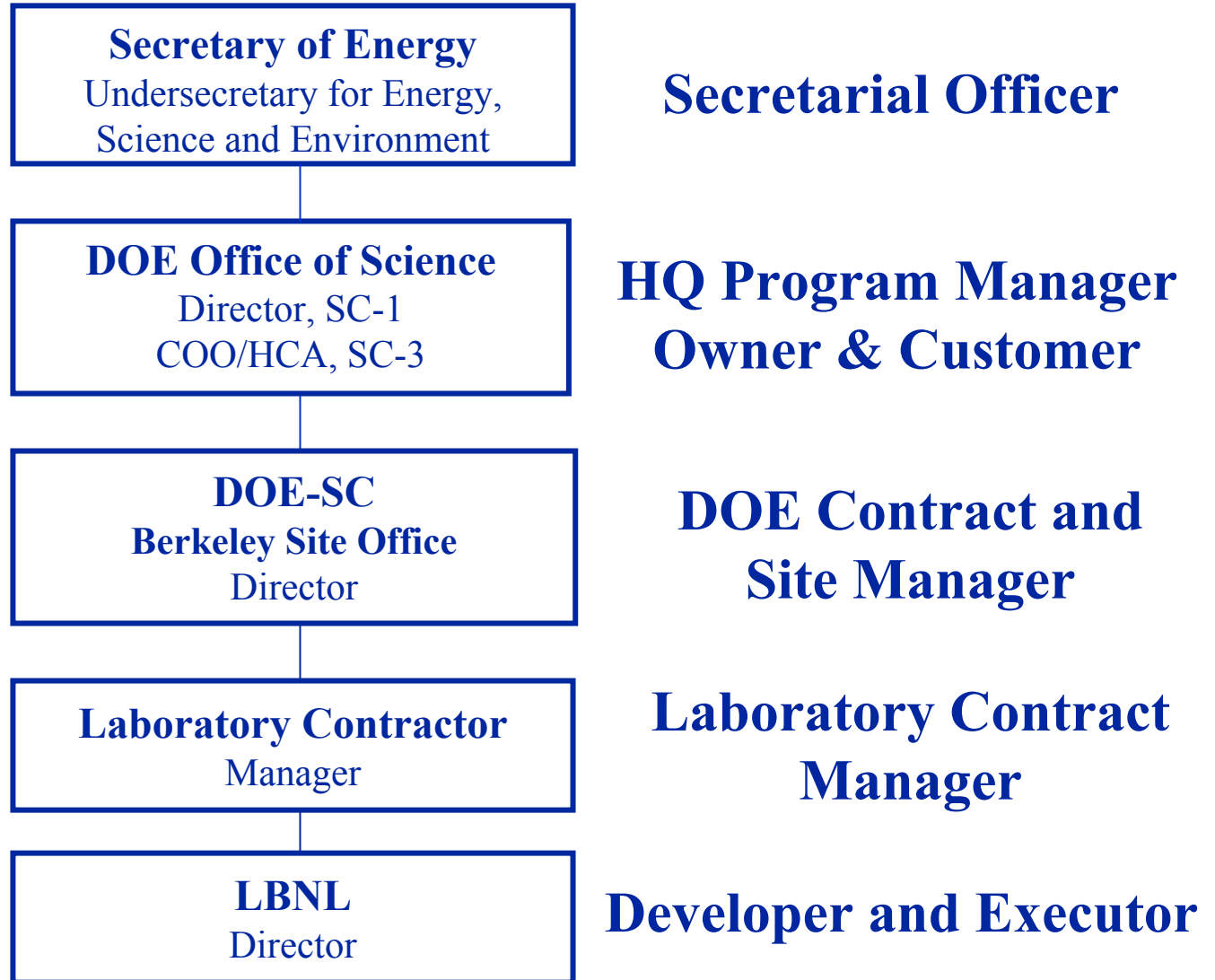
# OFFICE OF SCIENCE ORGANIZATION

August 17, 2004





# Line Management Authority





# LBNL's Mission

---

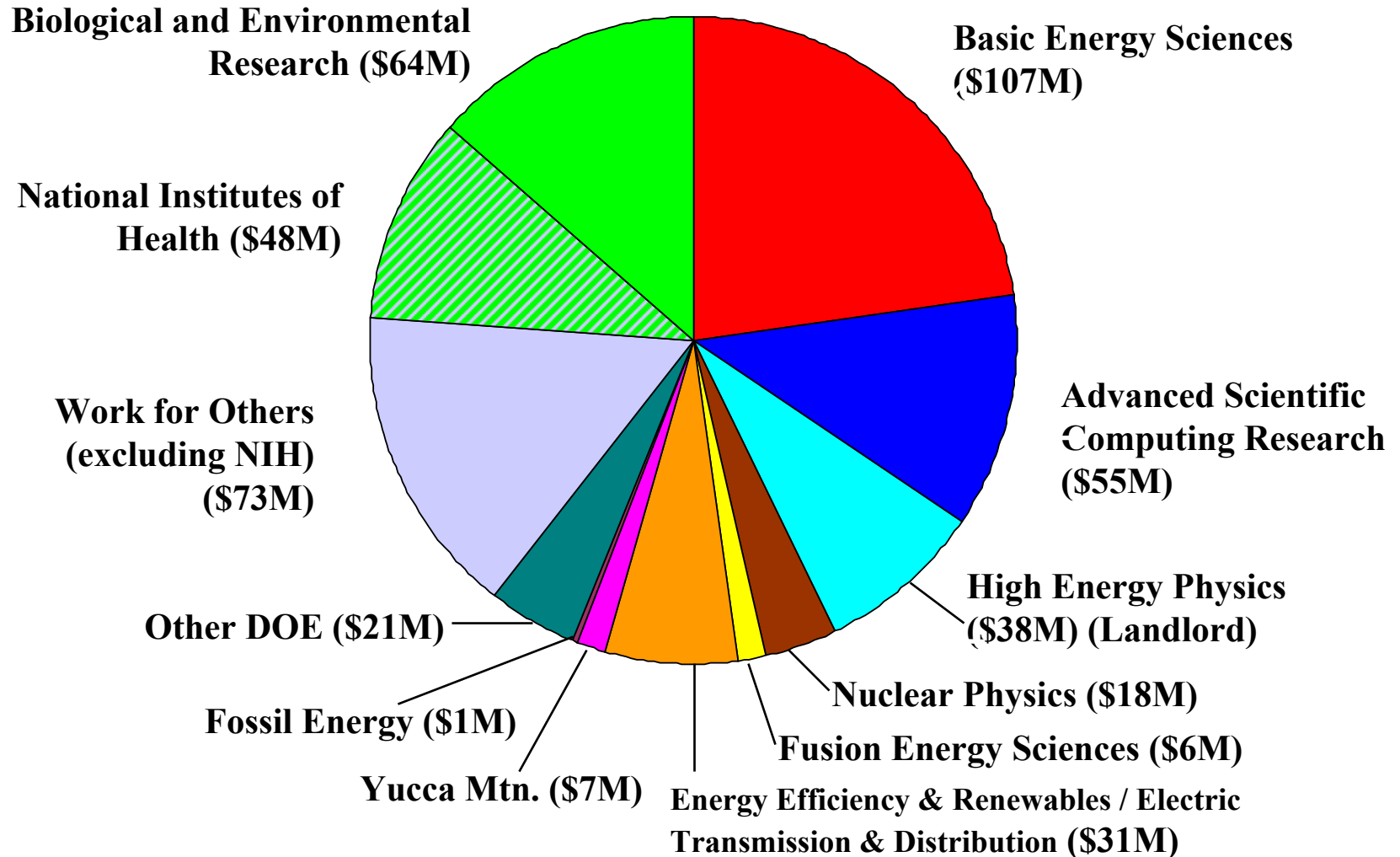
1. Perform world leading multidisciplinary scientific research
  - Fundamental research
  - Energy and environmental research and development
2. Develop and operate unique, national experimental facilities
3. Educate and train future generations of scientists and engineers
4. Collaborate with other research institutions, universities and industry, and transfer knowledge and technological innovation

There is no classified work or information at LBNL



# FY2005 LBNL Budget - \$469M

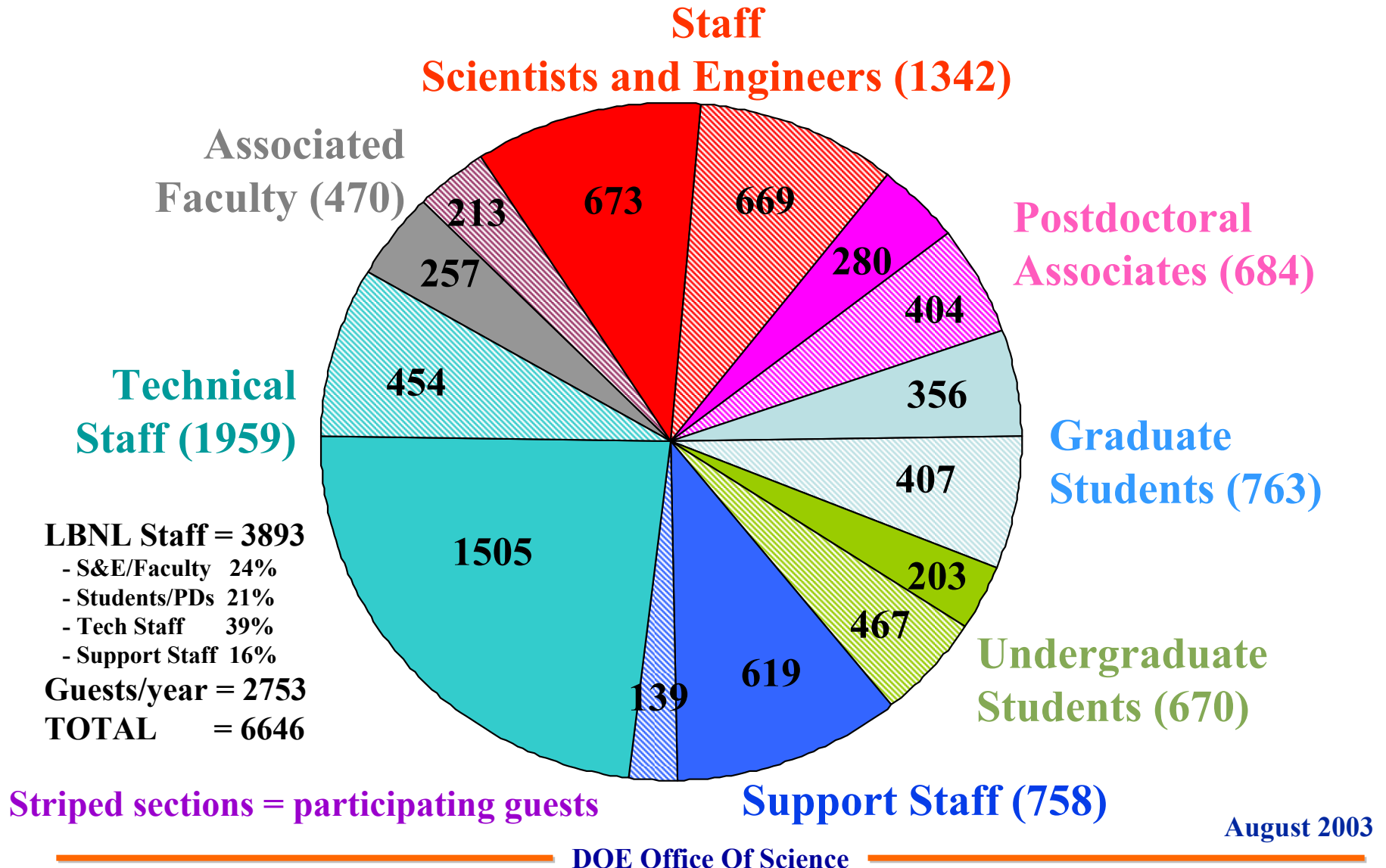
(President's OMB Request + WFO Projections)



CR Projection: Oct 2004



# LBNL Staff & Guests

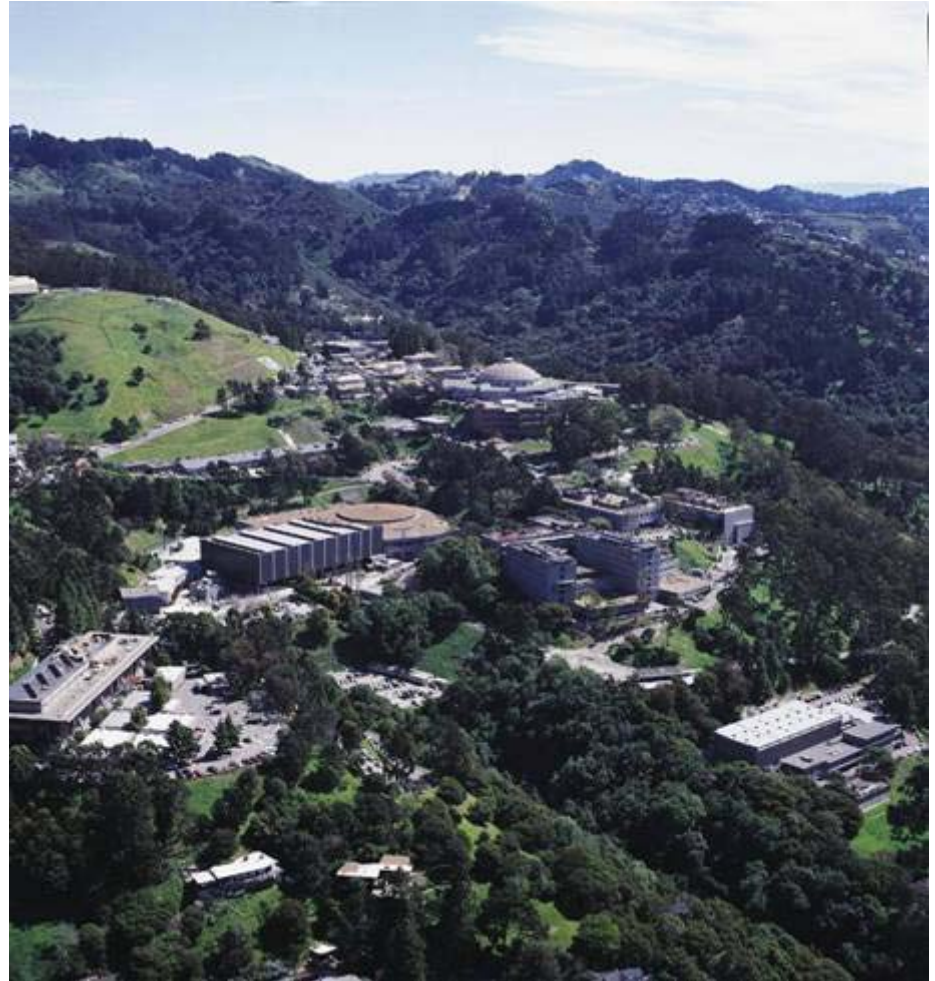




# LBNS Main Site Overview

---

- **Founded in 1931 @ UCB;**  
**moved to Hill site in 1940**
- **Main site is ~200 acres, 1.77 Mgsf**
- **~110 buildings + ~86 trailers & structures**
- **Avg. facility age ~ 38 years**
- **Offsite: 0.08 Mnsf @ UCB + 0.4 Mgsf leased**
- **Total Building Area ~ 2.25 Mgsf**
- **UC owns the land; DOE owns the Lab**
- **Replacement Plant value:**  
    ~ \$920M (official), ~\$604M (draft revised)
- **Equipment value ~ \$465M**
- **Average Daily Population ~4300**





# LBNL User Facilities

---



**Advanced Light Source (~1800 users)**



**National Energy Research Supercomputer Center  
Oakland, CA (>2000 users)**



**National Center for  
Electron Microscopy  
(~240 users)**



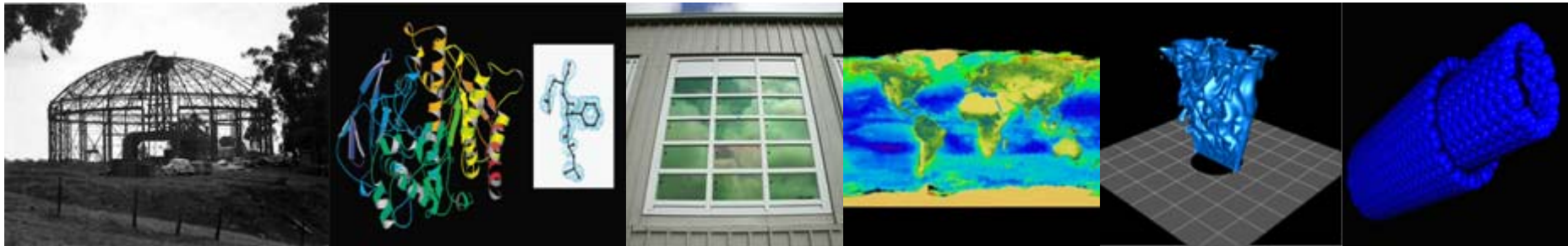
**Molecular Foundry, c.2006-07**



# LBNL Research Diversification & Evolution

**Research:** Multi-program → Inter-disciplinary

**Programs:** 1940-50s                      1970s                      1990s                      2000s  
Physics -- Chem/Mat'ls -- Biology -- Energy & Environment -- Computing -- Nanoscience



**Team Science / Collaborations:**

Laboratory →

National →

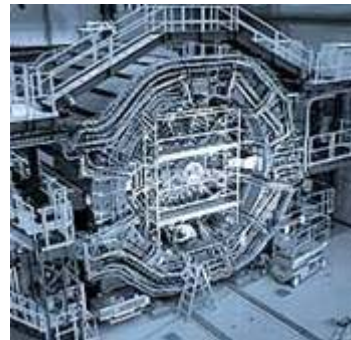
International



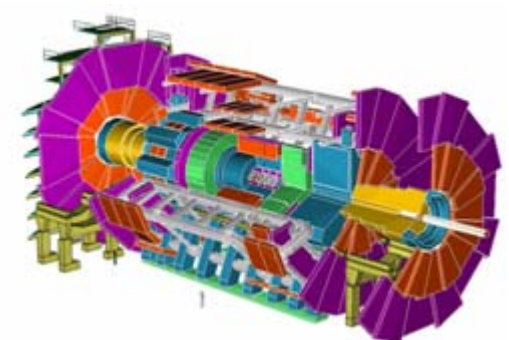
**Bevatron 1954**



**SNS Front-end (ORNL)**



**RHIC STAR (BNL)**



**LHC ATLAS (CERN)**



## 2. Major Programs & Sponsors

---

### **SCIENCE Programs**

- **Basic Energy Sciences (BES)**
  - **Molecular Foundry Project**
- **Biological and Environmental Research (BER)**
- **Advanced Scientific Computing Research (ASCR)**
- **High Energy Physics (HEP)**
- **Nuclear Physics (NP)**
- **Fusion Energy Sciences (FES)**

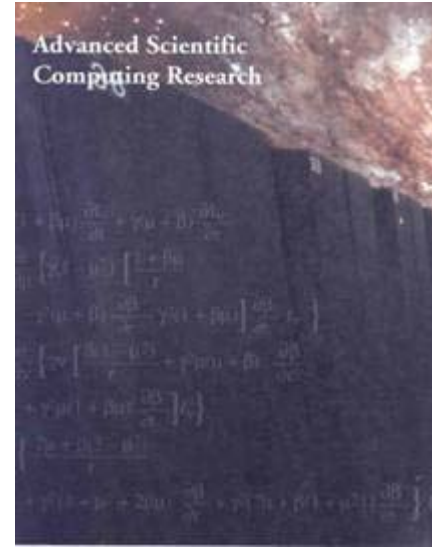
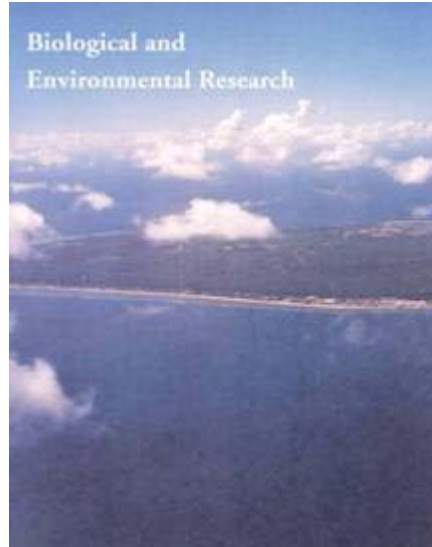
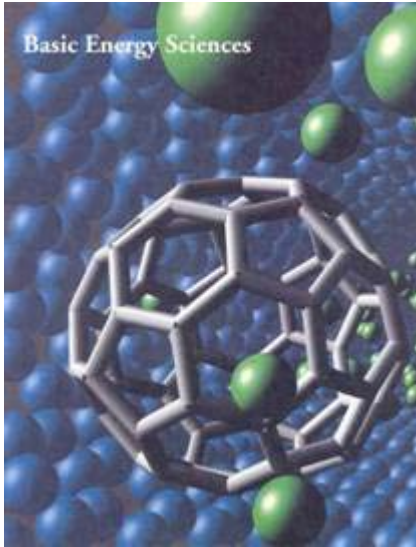
### **ENERGY Programs**

- **Energy Efficiency and Renewable Energy (EERE)**
- **Electric Transmission and Distribution (TD)**
- **Civilian Radioactive Waste Management (RW)**
- **Fossil Energy (FE)**

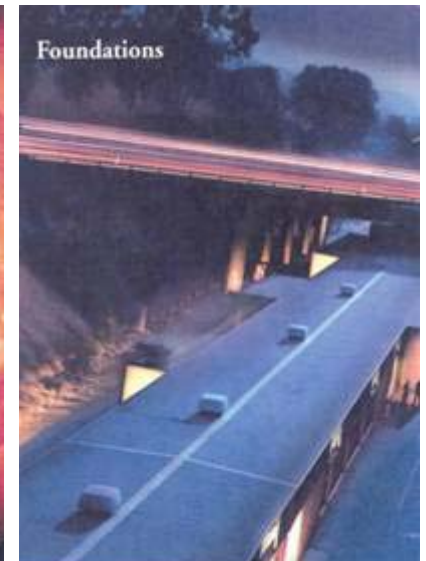
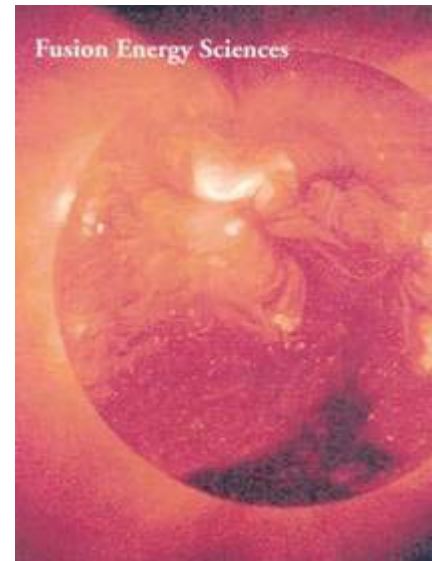
### **Work For Others (WFO)**



# DOE Science Programs



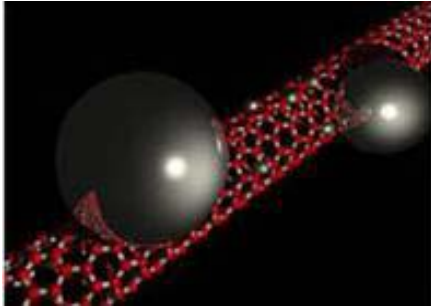
**LBLN  
Performs  
Work  
For All  
Science  
Programs**



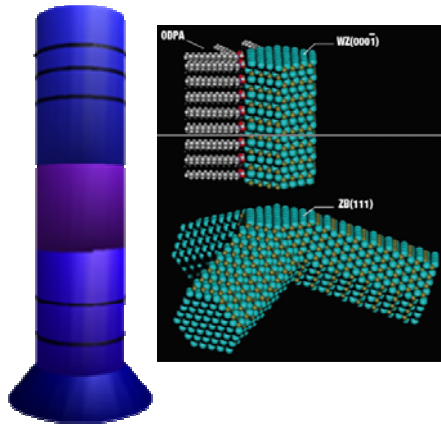


# Basic Energy Sciences

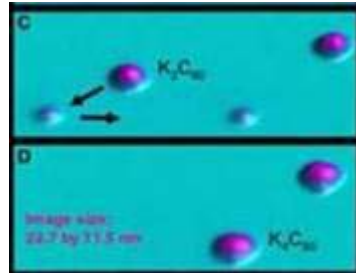
## Material Sciences



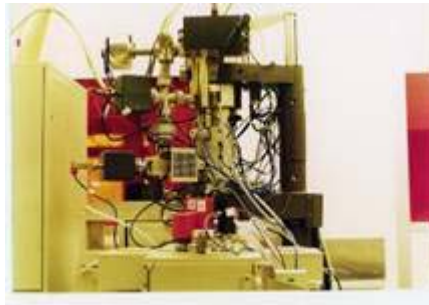
Nanotube Atom Transport



TEAM Aberration-corrected Microscope

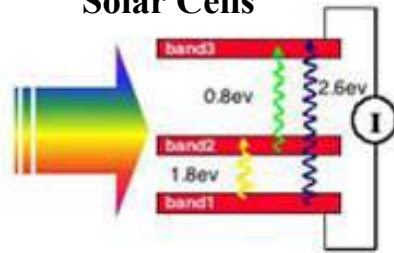


Single Molecule Doping

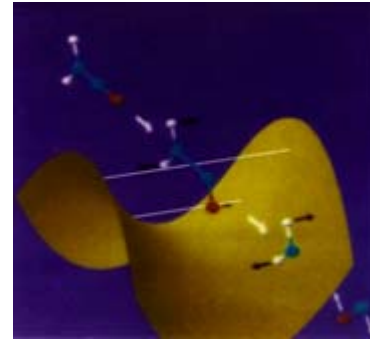


Nanowriter  
(Center for  
X-ray Optics)

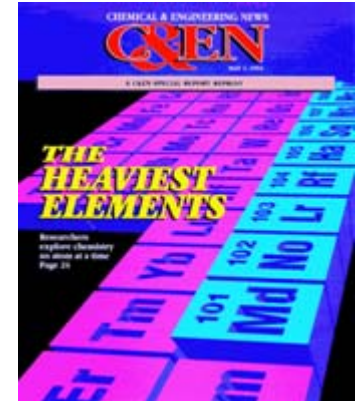
High Efficiency  
Solar Cells



## Chemical Sciences



Combustion Reaction Surface

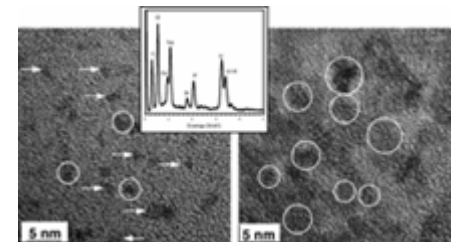


Heavy Element Chemistry

Liquid Microjet  
Spectroscopy



## Geosciences



Subsurface Nanoparticle Transport

User Facilities: Advanced Light Source, National Center for Electron Microscopy



# The Molecular Foundry

---

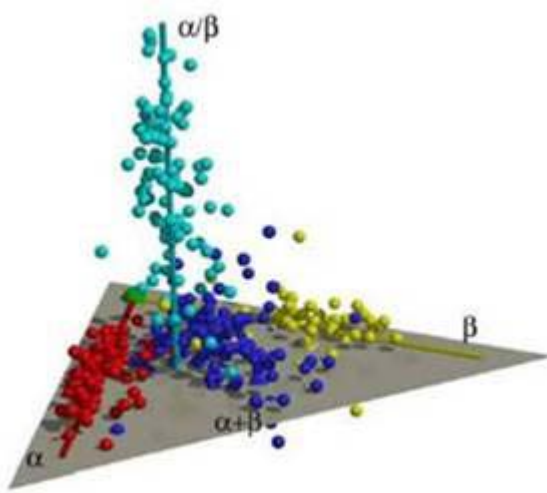
**World-class user facility for nanometer scale synthesis, fabrication, processing, characterization and theory**



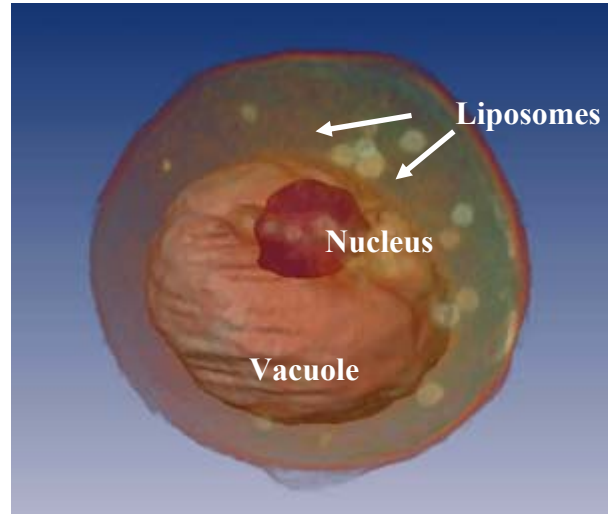
- Six story building ~89,000 gsf (labs, offices, clean room, conference space)
- TPC ~\$83.7M including ~\$15.0M capital equipment
- Under construction; completion by Dec. 2006



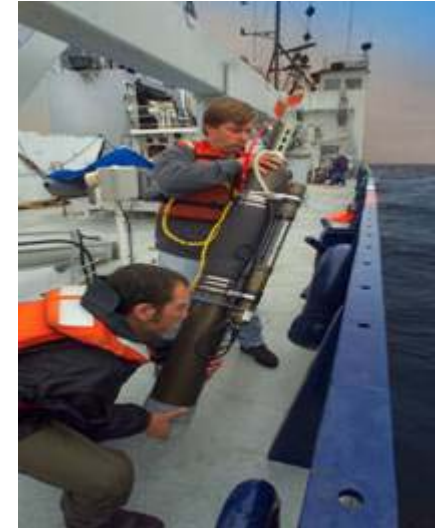
# Biological and Environmental Research



**Proteomics (Structure-Function)**



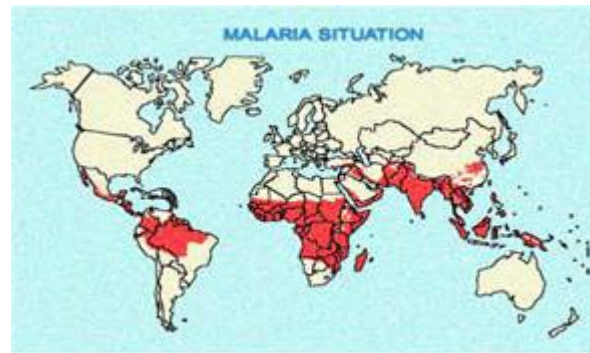
**Cellular Biology (X-ray Tomography)**



**Environmental Measurement  
(Ocean Carbon Cycle)**



**Genomics (Poplar Tree)**



**Medical Applications**  
(e.g., broadly affordable drugs)



**Iron Mountain, CA  
Superfund Site**

**Environmental Remediation**



# Scientific Computing Research



National Energy  
Research Scientific  
Computing Center

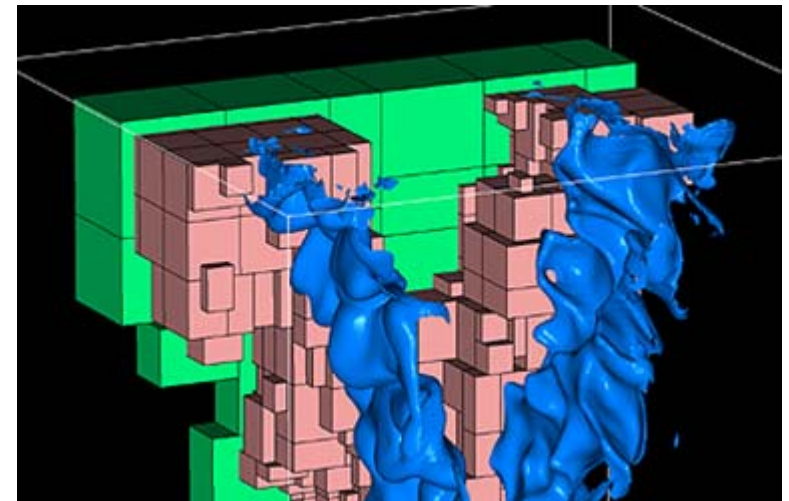
NERSC IBM SP RS/6000 “*Seaborg*”



High Performance Storage System



Energy Science Network



Computational Research

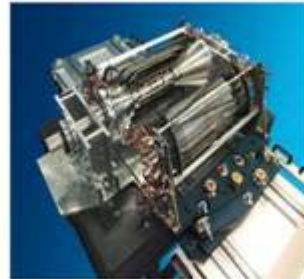


# High Energy Physics

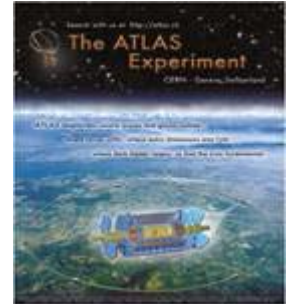
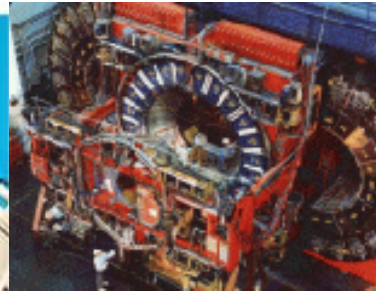
## Accelerator-based Programs

(Detectors & Experimental Collaborations):

SLAC B Factory (BaBar),  
Fermilab Tevatron (CDF, D0),  
CERN LHC (ATLAS), ...



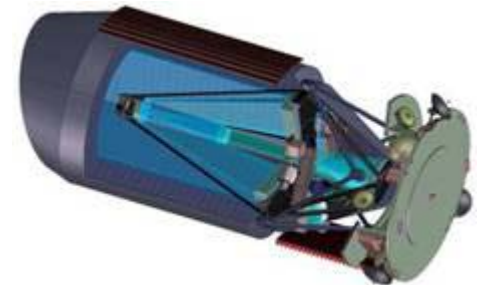
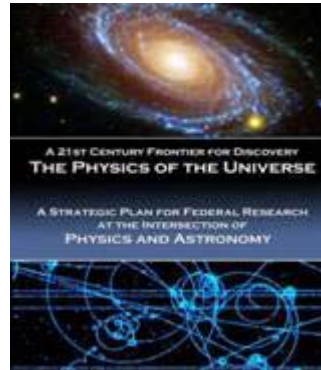
BaBar - LBNL  
XEROX-0245-02



**BaBar Detector    Collider Detector    Large Hadron Collider**

## Astrophysics:

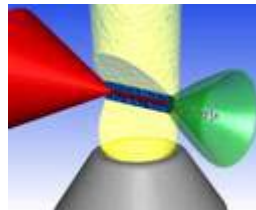
Cosmic Microwave Background,  
Dark Energy, Dark Matter, ...



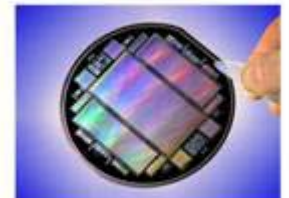
**SNAP Satellite**

## Technology R&D:

Laser Acceleration,  
Microsystem Lab, CCDs, ...



Small Laserlight Laser/LA  
XEROX-0245-02



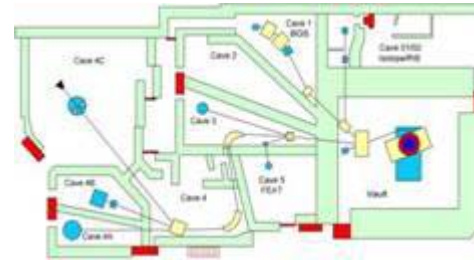
CCD imager for X-ray Telescope  
XEROX-0245-02



# Nuclear Physics

## Low Energy Nuclear Science

- 88-Inch Cyclotron
- GRETINA (Next Generation Gamma Detector)
- VENUS (Prototype Ion Source for RIA)
- Berkeley Accelerator Space Effects Facility



88-Inch Cyclotron



GRETINA

## Neutrino Studies

- SNO (solar) & KamLAND (reactor)
- DUSEL (proposed National Underground Lab)



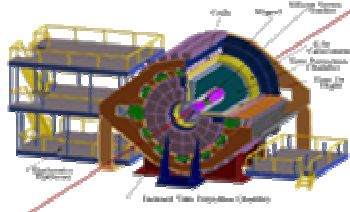
Sudbury Neutrino  
Observatory - Ontario



KamLAND - Japan

## Relativistic Nuclear Collisions

- STAR, STAR Micro Vertex Detector, ALICE at LHC



Solenoidal Tracker At RHIC (STAR)



STAR Vertex Detector

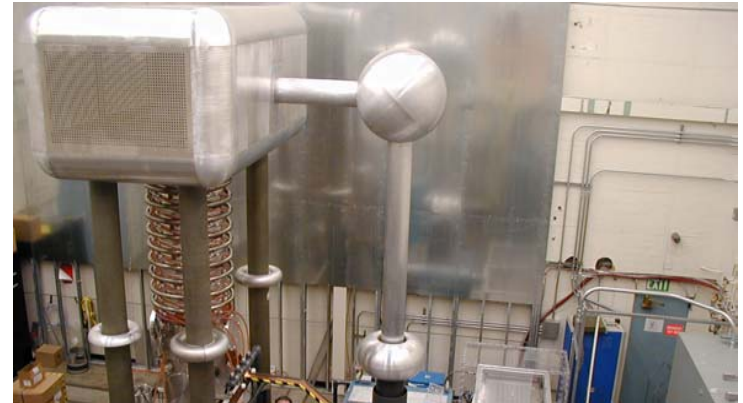


# Fusion Energy Sciences

**Heavy-Ion Fusion Virtual National Laboratory**  
(HIF-VNL) collaboration of LBNL, LLNL, PPPL

Developing heavy-ion accelerators for igniting  
inertial-fusion targets for energy production

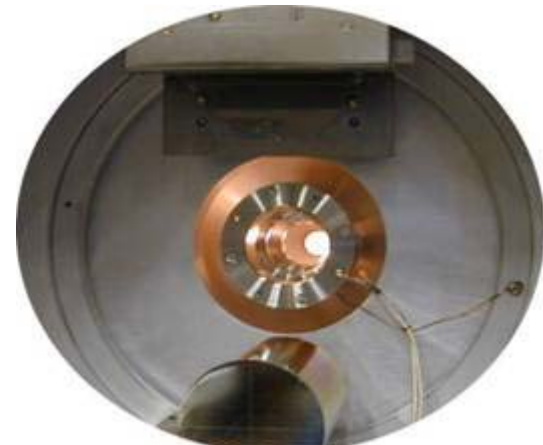
Experiments are testing space-charge dominated beam  
generation, transport and manipulation at driver-  
relevant scales



500 KV Facility Compact Injector



High Current Experiment



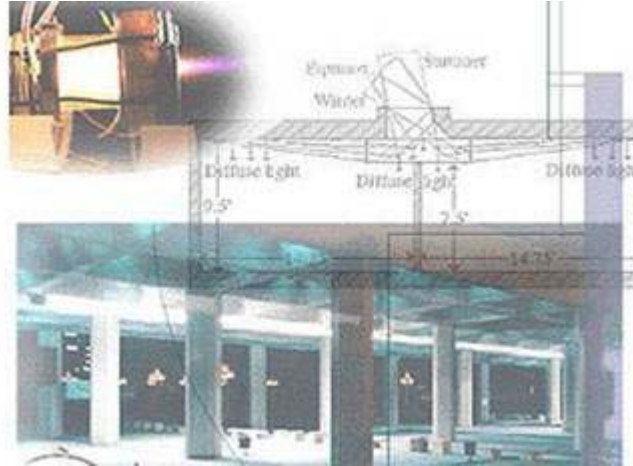
Neutralized Transport  
Experiment and Final Focus



# Energy Programs



**Solid State Lighting (LED, OLED)**



**Building Simulations, Design Codes,  
Materials, Technologies & Environment**



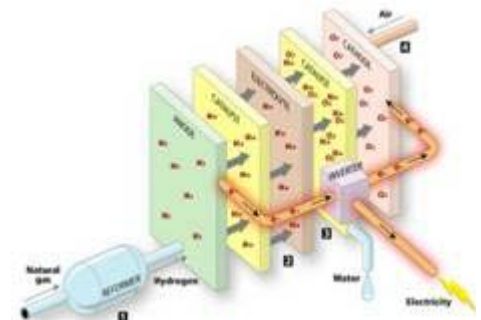
**Electrochemistry for Advanced  
Batteries and Fuel Cells**



**Carbon Sequestration & Management**



**Yucca Mountain Project Geoscience**





# Work For Others

---

**FY04 WFO funding ~\$118M (~22% of LBNL total)**

## **Major Sponsors and Research area *examples*:**

### **NIH (~38% of WFO):**

- Systems biology to understand cancer and DNA repair
- Protein crystallography and Biomedical imaging
- Comparative genomics and gene therapy studies
- Cellular senescence and aging
- Radio-nuclides & pharmaceuticals, NMR

### **NASA (~7%):**

- CMB anisotropy and supernovae research & analysis
- Space radiation effects on human biology
- Remote sensing, microgravity combustion, aerogels

### **EPA (~3%):**

- Pollutant and contaminant plume transport
- Energy & emissions analysis, projections, mitigation
- Building energy efficiency software and website

### **DOD & DHS (~12% of WFO):**

- Breast cancer research and treatment
- Biomolecular engineering for sensors
- E-beam and maskless microlithography
- Chemical & biological transport in buildings
- High speed, wide-area network testbeds

### **Other (~40%):**

- Advanced technologies for energy efficient buildings
- Electricity reliability; distributed power generation
- Int'l assistance – energy efficient tech & stnds
- ALS x-ray crystallography beamlines & studies
- DNA sequencing of plants and plant pathogens
- Geothermal energy impacts of fluid injection
- Oil reservoir characterization & well monitoring
- Particle data program and educational materials



### 3. Alignment with DOE Strategic Plans

---

SC Strategic Plans: Facilities & Programs

LBNL Contributions to the SC Strategic Plan

LBNL SC Strategic Facilities Outlook



# SC Strategic Plans

## The Future of Science

The health and vitality of U.S. science and technology depends on the availability of the most advanced research facilities. The U.S. Department of Energy's Office of Science leads the world in the conception, design, construction, and operation of these large-scale devices. *Facilities for the Future of Science: A Twenty-Year Outlook* lists 26 new large scientific facilities and upgrades of current facilities that will define scientific opportunities across all fields of science supported by DOE over the next 20 years.

Priority	Program	Facility
1	FES	ITER
2	ASCR	UltraScale Scientific Computing Capability
Tie for 3	HEP	Joint Dark Energy Mission
	BES	Linac Coherent Light Source
3	BER	Protein Production and Tags
	NP	Rare Isotope Accelerator
	BER	Characterization and Imaging
Tie for 7	NP	CEBAF Upgrade
	ASCR	E3net Upgrade
7	ASCR	NERSC Upgrade
	BES	Transmission Electron Achromatic Microscope
12	HEP	STW
13	HEP	Linear Collider
Tie for 14	BER	Analysis and Modeling of Cellular Systems
	BES	SNS 2-4 MW Upgrade
14	BES	SNS Second Target Station
	BER	Whole Proteome Analysis
Tie for 18	NP/HEP	Double Beta Decay Underground Detector
18	FES	Next-Step Spherical Torus
	NP	RHIC II
Tie for 21	BES	National Synchrotron Light Source Upgrade
	HEP	Super Neutrino Beam
21	BES	Advanced Light Source Upgrade
	BES	Advanced Photon Source Upgrade
Tie for 23	NP	eRHIC
23	FES	Fusion Energy Contingency
	BES	HFR Second Cold Source and Guide Hall
	FES	Integrated Beam Experiment

**Legend:**  
Near-term: ASCR, HEP, NP  
Mid-term: BES, FES  
Far-term: FES, NP

**Programs:**  
ASCR = Advanced Scientific Computing Research  
BES = Basic Energy Sciences  
BER = Biological and Environmental Research  
FES = Fusion Energy Sciences  
HEP = High Energy Physics  
NP = Nuclear Physics

**Facilities for the Future of Science: A Twenty-Year Outlook**

**"These facilities and upgrades will revolutionize science—and society. They are needed to extend the frontiers of science, to pursue opportunities of enormous importance, and to maintain U.S. science primacy in the world. Investment in these facilities will yield extraordinary scientific breakthroughs—and vital societal and economic benefits."**

**Secretary of Energy Spencer Abraham**

November 2003

## The Future of Science

The Department of Energy's Office of Science, the Nation's leading supporter of the physical sciences, is unveiling its 20-year vision for the future of science supported by DOE. The *Office of Science Strategic Plan*, produced after extensive consultations with the U.S. scientific community, sets concrete goals and priorities that will dramatically influence the direction of basic research in the U.S. for decades to come.

### Our Goals

- Advance the Basic Sciences for Energy Independence
- Harness the Power of Our Living World
- Bring the Power of the Stars to Earth
- Explore the Fundamental Interactions of Energy, Matter, Time, and Space
- Explore Nuclear Matter—from Quarks to Stars
- Deliver Computing for the Frontiers of Science
- Provide the Resource Foundations that Enable Great Science

**"The Department of Energy's Office of Science Strategic Plan outlines an ambitious agenda for science, one that will lead us to a more secure energy future, a cleaner environment, a healthier citizenry, and great advances in our imagination and knowledge."**

**Dr. Raymond L. Orbach**  
Director, DOE Office of Science

**"Science and technology have never been more essential to the defense of the Nation and the health of our economy."**

**President George W. Bush**

February 2004



# LBNL's Contributions to the SC Strategic Plan

## SC Strategic Plan Element

### **Basic Research for Energy (BES)**

### **Harness the Living World (BER)**

### **Starpower on Earth (FES)**

### **Matter, Energy, Space, Time (HEP, NP)**

### **Computing at Science Extremes (ASCR)**

### **Foundations of Science**

## LBNL Institutional Plan Element

### **Nanoscience: Molecular Foundry**

X-ray science, Electron Microscopy, Geosciences  
Other: Electrochemistry for Batteries & Fuel Cells,  
Catalysis, Solid-state Lighting, Smart Windows

### **GTL - Microbial Physiology & Ecology**

Joint Genomics Institute  
Carbon sequestration (ocean, terrestrial, geologic)

### **Heavy-Ion Fusion / High Energy Density Physics**

### **Dark Energy (SNAP Satellite)**

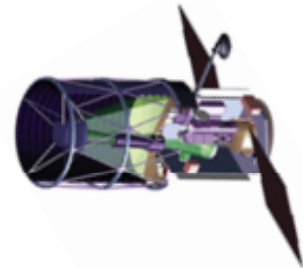
Neutrino physics, Nuclear structure (Gretina)  
Adv accelerator components & detectors

### **NERSC & ESnet**

SciDAC, DOE Science Grid

### **Upgrades of ALS & NCEM**

Center for Science & Engineering Education





# LBL SC Strategic Facilities Outlook

---

## **LBNL has capabilities to lead or contribute to 17 of the 28 Facilities in the SC Plan**

- **Facility Leads (6):**
  - # 3. HEP Joint Dark Energy Mission (JDEM)
  - # 9. ASCR ESnet Upgrade
  - #10. ASCR NERSC Upgrade
  - #11. BES Transmission Electron Achromatic Microscope (TEAM)
  - #23. BES Advanced Light Source (ALS) Upgrade
  - #28. FES Integrated Beam Experiment (IBX)
  
- **Facilities for Potential Contribution or to Compete to Lead (11)**
  - # 1. FES ITER (sc magnets, diagnostic neutral beams)
  - # 2. ASCR Ultra-scale Computing
  - # 6. NP Rare Isotope Accelerator (RIA)
  - # 7. BER GTL #3 – Characterization and Imaging
  - #13. HEP Linear Collider
  - #14. BER GTL #4 – Analysis and Modeling of Cellular Systems
  - #17. BER GTL #2 – Whole Proteome Analysis
  - #18. NP Double-Beta Decay Underground Detector
  - #20. NP RHIC II
  - #22. HEP Super Neutrino Beam
  - #25. NP eRHIC



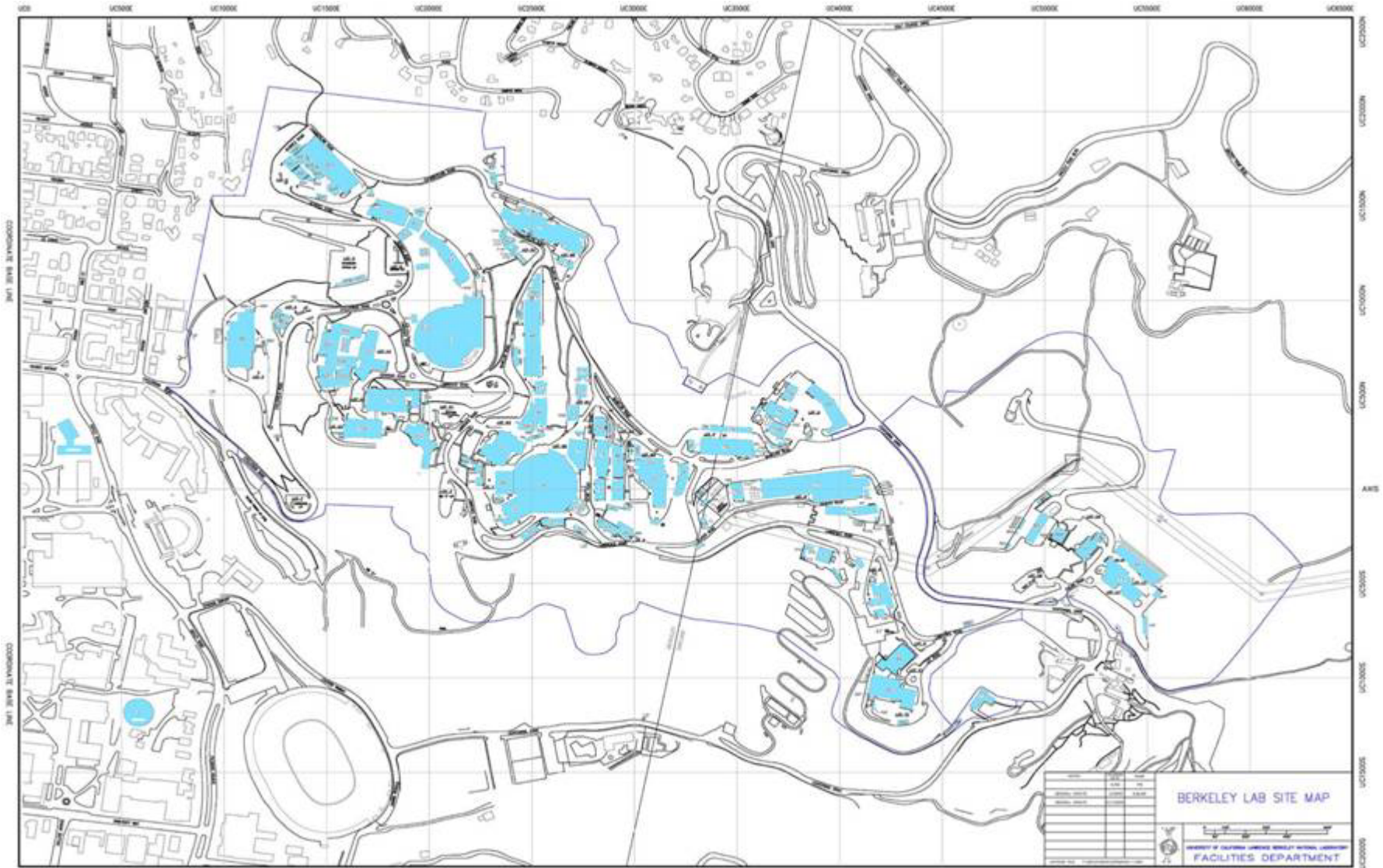
## 4. Site and Facilities Overview

---

- Main Site Map – Hill site & UCB facilities
- Offsite Map – Leased Facilities
- Main Site Land Leases Map
- Facilities Maintenance Outlook
- Current & Pending Infrastructure Projects

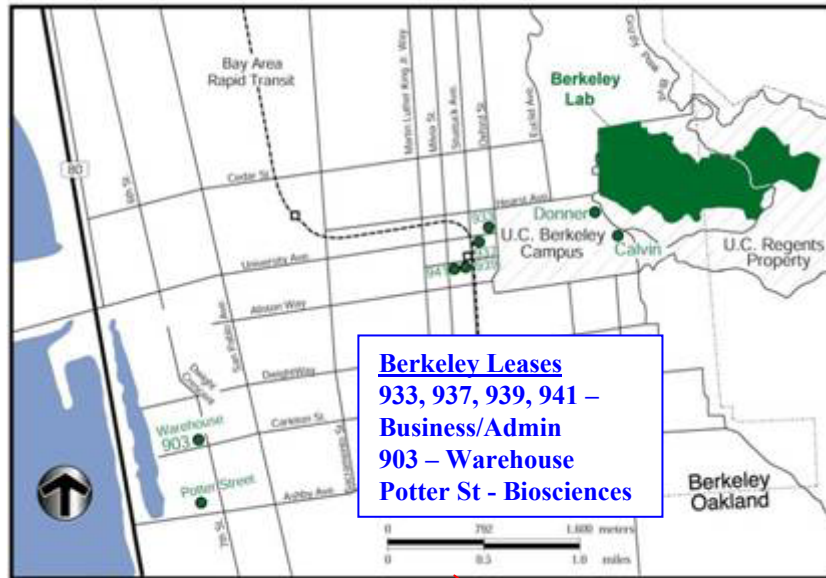


# LBNL Site Map

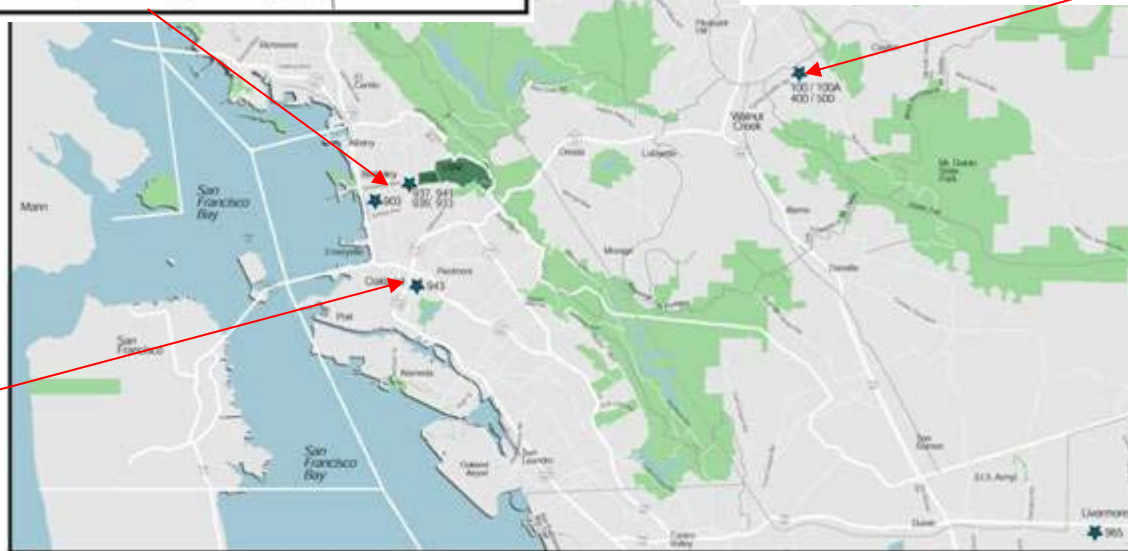




# Offsite Leased Facilities Map

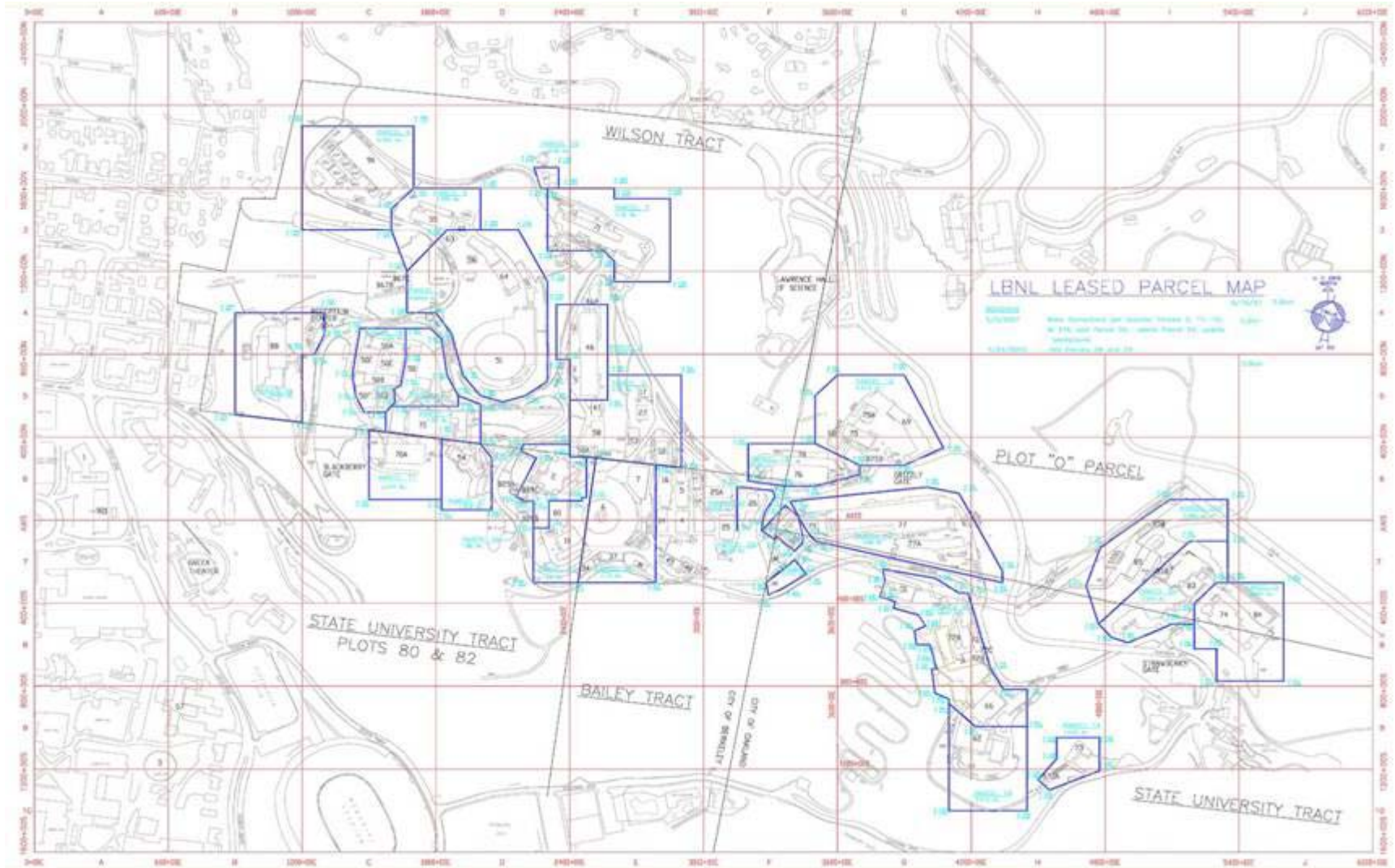


Joint Genome Institute - 100, 100A, 400, and 500 - Walnut Creek, California





# Land Leases Map





# Facilities & Maintenance Outlook

---



- Avg. age of LBNL's nearly 200 buildings, trailers & structures is ~38 years
- Over 75% of LBNL building space (1.26 million gsf) is over 30 years old, and 48% (813,000 gsf) is over 40 years old
- Facility Condition Index:  
~ 32% of Berkeley Lab's main site space is rated substandard (Poor or Fail)



# Facilities & Infrastructure Projects

## FY06 Excess Facilities Project:

Project: Building 51 and Bevatron Demolition

TEC: ~\$83M

### Scope :

- Dismantling and removal of the Bevatron accelerator and shielding blocks, including their characterization as low-level waste, mixed waste, industrial landfill material, hazardous material/waste, scrap or salvageable material.
- Demolition of Building 51, including slab, foundations, and tunnels. If contamination (mercury or PCBs) or if induced radioactivity is found, the material will be characterized and appropriately dispositioned.



### Project Status:

- CD-0 approved – August 2004
- Conceptual Design Report (CDR) – in progress



# Facilities & Infrastructure Projects

## FY04 Science Laboratory Infrastructure Project:

Project: Bldg-77 (Eng Shop) Rehab Phase 2

TEC: \$13.36M

### Scope:

Upgrade mechanical, electrical, and architectural systems.

### Mechanical and Electrical:

Upgrade HVAC systems in 77 and 77A.

AHU, Chillers, Boilers, Cooling Tower in 77.

Chillers and Cooling Tower in 77A.

Replace weld shop exhaust systems.

Install new exit lights, battery-powered emergency lights,  
and fire detection and alarm system.

New lighting in 77A.

New domestic water and compressed air in 77A.

New overhead material handling system in 77A.

### Project Status:

- CD-1 approved October 2002
- External Independent Review – May to July 2004
- CD-2 scheduled for October 2004





# Facilities & Infrastructure Projects

---

## FY07 Science Laboratory Infrastructure Projects:

Project: User Support Building (USB)

TEC: \$21.5M

### Scope:

- Provide modern research support space for visiting users.
- Analytical lab and office space for ~135 occupants and >2,000 scientific users/year. Includes a high bay space for assembly, shipping, receiving and storage.



### Project Status:

- CD-0 approved – April 2003
- Conceptual Design Report (CDR) completed – June 2004
- CD-1 documentation being prepared



# Facilities & Infrastructure Projects

## Science Laboratory Infrastructure Project:

Project: LBNL - Structural and Infrastructure Upgrade to Building 71 TEC: \$6.8-9.3M

### MISSION NEED

- 2/3 of Building 71 personnel relocated due to seismic safety risks, exacerbating space shortage
- Reclaims space for future research, likely for Ion Beam Technology work located in “Old Town,” WWII-era buildings planned for demolition.



Building 71



End view of SuperHILAC

### SCOPE

- Remove remaining components of the SuperHILAC and its shielding (the primary source of seismic safety findings), and perform additional structural upgrades
- Complete the ES&H decontamination begun with Laboratory funds



# Facilities & Infrastructure Projects - Seismic

---



Building 50



Building 72



Building 74



Building 76



# Facilities & Infrastructure Projects

Project: LBNL - Seismic Conditions and Aging Infrastructure

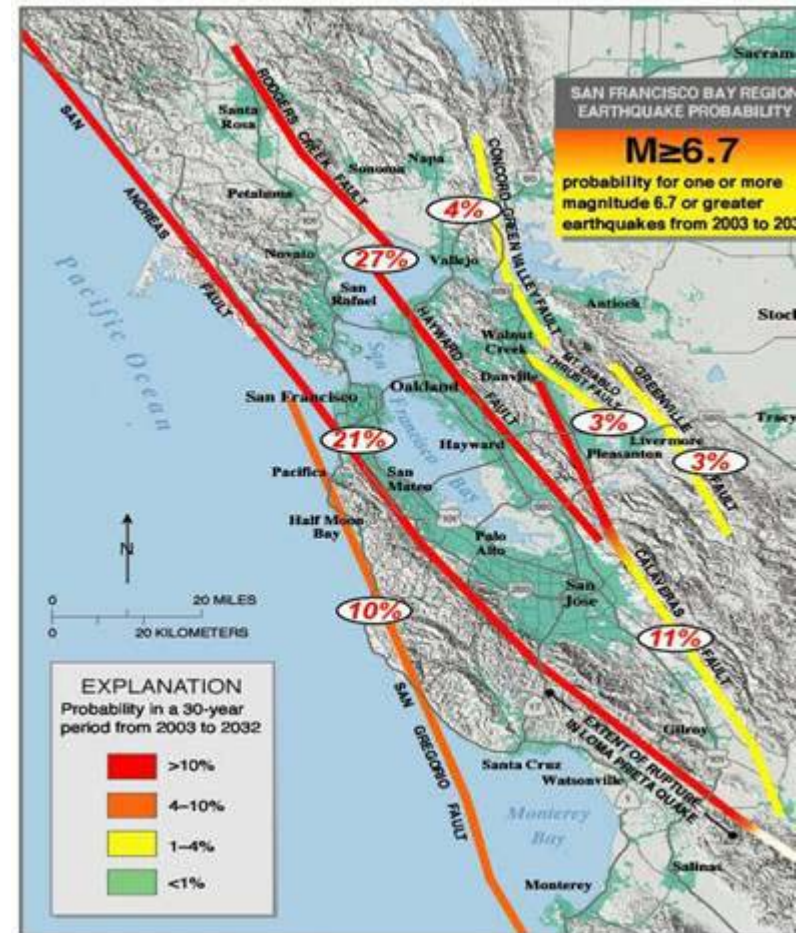
TEC: \$8.0-10.5M

## MISSION NEED

- High life-safety risks in buildings 50, 72, 74 and 76.
- Over 600 occupants in 5 Divisions.
- Relocation of personnel precluded by space shortage.

## SCOPE

- Building 50: Reduce high seismic demand capacity ratios in concrete spandrel beams and shear walls, reinforce a column supporting a discontinuous shear wall, and rehabilitate inadequately anchored non-structural elements.
- Building 72: Resolve an existing discontinuous roof diaphragm and provides for a complete load path for seismic forces.
- Building 74: Strengthen vertical bracing, eliminates an inadequate seismic gap, resolve diaphragm discontinuities and a discontinuous shear wall, and retrofit a compromised shear wall.
- Building 76: Reduce high seismic demand capacity ratios in concrete columns, reduce roof diaphragm flexibility and rehabilitates inadequate roof diaphragm connections.



Source U.S. Geologic Survey



# Summary

---

- LBNL is one of the oldest DOE Labs with a rich history of team science and multi-disciplinary research
- Broad contributions to SC's and DOE's missions
- Well positioned to support SC and DOE strategic plans
- Space constraints and aging facilities are significant challenges for the future of the institution



# Draft RFP Highlights



# Evaluation Criteria

---

- **Relevant Experience (150 points)**
  - National and international recognition/accomplishments (75 points)
    - Relevance, leadership, impact and innovation in Science & Technology
  - Relevant experience and success in operations and business management of R&D institutions, projects, or programs in excess of \$50 Million (75 points)
- **Scientific Strategy for LBNL (75 points)**
  - Comprehensiveness, innovativeness, and feasibility of strategy to optimize scientific results
  - Comprehensiveness and feasibility to focus the research portfolio and science strategy in a constrained budget
- **Management Approach (325 points)**
  - Strategy to attract, develop, and retain world-class scientific personnel, and develop and educate next generation of scientists and engineers (75 points)
  - Strategy to leverage research competencies and facilitate moving scientific & technological advances to the private sector (50 points)
  - Strategy to maximize scientific impacts from User Facilities (50 points)
  - Strategy for achieving excellence in operations and business management (100 points)
  - Organizational elements and staff organized effectively and efficiently (50 points)



# Evaluation Criteria (cont.)

---

- **Key Personnel (300 points)**
  - Laboratory Director (125 points)
  - Other Key Personnel (175 points)
  - Credentials, technical and leadership capabilities, relevant experience (currently, depth, past performance), effective communication, work together, length of commitment
- **Transition (50 points)**
  - Feasibility, comprehensiveness, efficiency, and effectiveness
- **Past Performance (50 points)**
  - Recent relevant contract during last 5 years
  - Relevant contract - >\$50 Million average annual R&D revenue/cost
- **Offeror's Involvement/Commitment (50 points)**
  - Comprehensiveness and feasibility of strategy for corporate oversight
  - Credibility and expected benefit of proposed contribution



# Evaluation Criteria (cont.)

---

- **Cost**
  - Cost proposals will be evaluated with respect to reasonableness and realism. The evaluation will include consideration of the cost to the Government of doing business with each Offeror during the transition period. Proposed fee will be assessed to ascertain impact on the cost of doing business with the Offeror.



## Evaluation Criteria (cont.)

---

- The Capabilities and Approach Criteria combined are significantly more important than the Cost Criteria



# Evaluation Criteria (cont.)

CAPABILITIES and APPROACH PROPOSAL		
1.	Relevant Experience	150
	a. National and international recognition/accomplishments	75
	b. Relevant experience and success in operations and business management	75
2.	Scientific strategy for LBNL	75
3.	Management Approach	325
	a. Strategy to attract, develop, and retain world-class scientific personnel and to develop and educate the next generation of scientists and engineers.	75
	b. Strategy to leverage research competencies and facilitate moving scientific and technological advances to the private sector.	50
	c. Strategy to maximize scientific impacts from User Facilities.	50
	d. Strategy for achieving excellence in the operations and business management of LBNL.	100
	e. Organizational elements and staff are organized effectively and efficiently.	50
4.	Key Personnel	300
	a. Laboratory Director	125
	b. Other Key Personnel	175
5.	Transition	50
6.	Past Performance	50
7.	Offeror's Involvement/Commitment	50
Total Available Points		1,000



# Contract Type

---

- Cost-Reimbursement Performance-Based Management and Operating Contract
  - 2 Month Transition (Clauses F.1(b) and H.42)
  - 5 Year Term (Clause F.1)
  - Award Term (Clause F.2)



# Award Term

---

- **Clause F.2**

- Contractor may earn up to an additional 15 years of term based on performance
- Eligibility Requirements
  - Initial period – rating of at least “Satisfactory” for performance during FY05 and achieve average annual rating of “Outstanding” for FY06 and FY07
  - Achieve average annual rating of “Outstanding” for subsequent years
- Award Term Determination Official (SC-3) unilaterally determines if Contractor meets eligibility requirements and achieved other standards, requirements, etc. for earning award term



## Award Term (cont.)

---

- Standards requirements will be unilaterally set by DOE and contained in Performance Evaluation and Measurement Plan or equivalent document
- If Contractor earns initial award term, contract will be extended for 3 years
- Subsequent award term determinations will be on an annual basis and, if earned, contract will be extended one year
- If Contractor fails to earn first time or 3 times subsequently, Contractor ineligible to earn any additional award term
- Contractor may forfeit up to 3 years of previously earned award term if:
  - Significant failure of management controls as defined in Clause I.76, Management Controls
  - First degree performance failure as defined in Clause I.83, Conditional Payment of Fee, Profit, or Incentives



## Performance Fees

---

- Total Maximum Performance Fee for Initial Term is \$34 Million (Provision L.9(C))
  - \$3.4 Million maximum FY05 & FY10
  - \$6.8 Million maximum FY06-FY09
  - Offerors propose annual earnable performance fee
- Total maximum Performance Fee for 1<sup>st</sup> 5 years of additional Award Term is \$34 Million
  - Offerors propose maximum annual earnable performance fee



# Transition Period

---

- Clause H.42 (c)
  - Cost Reimbursement
  - No Fee
  - Offeror's Proposed Transition Cost Becomes Maximum Liability of Government



# Human Resource Requirements

---

- Clause H.21, H.42, and L.38
  - Accept Career/Term workforce, with exception of management team
  - Separate, IRC/ERISA compliant, pension plan
  - Credit accrued benefits/vesting/service/leave balances of transferring workforce
  - Total compensation package comparable to that provided by incumbent
    - Salaries, with no reduction to base pay,
    - health/welfare benefits,
    - pensions (UCRP, defined contribution plans, Public Employees Retirement System – if applicable)
  - Employment terms/conditions consistent with those under current collective bargaining agreements until transition to new CBA's.



# Transition Activities

---

- Clause H.42
  - Scientific Research
  - Management Systems
  - Assignment of Existing Agreement
  - Joint Reconciliation Property Inventory
  - Litigation Management



# Transition Activities (cont.)

---

## Human Resources

- Workforce plan for retention and/or recruitment of critical skills
  - Utilization of “Joint Appointees” – faculty appointments
  - Develop appropriate recruitment/retention/incentive compensation programs
  - Document terms/conditions of bargaining unit workforce
  - Strategy for meeting Clause H.21(f) requirements
  - Provide framework for the pension/health/welfare benefits for transferring workforce
    - » Assessment of benefit value relative to UC’s
    - » Investment strategy for management of transferred assets.



## Other RFP Features

---

- Electronic Proposals – Provisions L.50-55
  - Offerors can submit electronically through IIPS if they so desire
- Award without discussions
- Oral presentations vs. written proposals
  - Will be utilized primarily to assess capabilities of Key Personnel
  - Problem related to Science Strategy for LBNL will be utilized (Evaluation Criterion 2)



## Other RFP Features (cont.)

---

- Performance Evaluation & Measurement Plan (PEMP)
  - PEMP in RFP is a draft Appendix B which contains the actual FY04 Objectives, Criteria, and Measures for LBNL (Appendix B, Section J, Attachment J.2)
  - PEMP is for information purposes only
  - Final RFP will include an Appendix which contains PEMP for initial contract evaluation period



## Other RFP Features (cont.)

---

- Small Business Plan (Provision L.12 and Section J, Attachment J.8)
  - Requires 50% of all planned subcontracting to be awarded to small business
  - 3 Areas identified for direct federal contracts that are currently obtained by LBNL through subcontracts
    - Independent Audit Services
    - Infrastructure computer supplies and equipment
    - Copier services



# Comment Period

---

- Additional comments/questions, submit thru IIPS <http://e-center.doe.gov>
- Comment Period Ends November 15